



Intelligent Person Search and Re-Identification



An Intelligent Solution for Accuracy and Detection

Bringing Artificial Intelligence to victor and VideoEdge

Powerful AI and video analytics can now be combined and integrated with the victor and VideoEdge solution to strengthen operation efficiency and effectiveness. By simply allocating a license to a camera, the system will immediately begin collecting behavioral metadata reporting key performance indicators and trigger real-time alarms. Detect suspicious objects and abnormal behavior to identify trends that help mitigate threats, and pinpoint exact location of alarms on maps to arm security teams with lifesaving details. With the powerful, automated and forensic search capabilities powered by Illustra AI, victor and VideoEdge users are able to save time when minutes matter.

Developing victor and VideoEdge with AI capabilities equips customers with a comprehensive, intelligent solution for high accuracy, and more powerful features, thus giving their business security a superior advantage against potential threats.

Ensure Reliability and Business Continuity with a Cybersecurity Program

Our systems have been designed to be resilient against cyber threats. The Illustra AI suite, VideoEdge NVRs and victor VMS adhere to the rigorous standards of the Johnson Controls Cyber Solutions Product Security Program. The holistic approach to cyber protection is aimed at providing peace of mind to our customers. Our security mindset begins at initial design concept and is supported through deployment, including a rapid incident response to meet the comprehensive and evolving cybersecurity environments.

Key Features

- Area Occupancy
- Automatic Face Redaction
- Crowd Counting
- Facial Matching
- Intelligent Perimeter Protection
- Mask Detection
- Object Classification
- Re-identification and Intelligent Person Search
- Social Distancing

AI Features

Capability	Description	Host Platform
Area Occupancy	Automate the counting of people within a specific area. Security administrators can focus on other important tasks, while the people counting feature runs automatically. The occupancy count can aggregate multiple entrances and exits within the entire camera deployment.	Illustra AI Server Illustra Pro G4 AI
Automatic Face Redaction	Pixilate faces on exported clips to protect an individual's privacy when the individual is in the camera's view, but not critical or part of an event.	Illustra AI Server
Crowd Counting	Trigger events, alarms and notifications based on the number of people in a specified spaces for effective crowd control	Illustra AI Server
Facial Matching	Enable rapid real-time alarms and/or quick forensic recognition of known and enrolled faces including VIPs and unwanted persons.	Illustra AI Server
Intelligent Perimeter Protection	Detect objects that linger along a perimeter for a specified period of time or cross a perimeter to enter a protected area	Illustra AI Server Illustra Pro G4 AI
Mask Detection	Detect and quickly and efficiently respond when people entering a building are not wearing a mask for the overall health and safety of those withing a building or specified area.	Illustra AI Server
Object Classification	Quickly search through hours of video for a specific person or vehicle saving valuable time	Illustra AI Server Illustra AI
Re-identification and Intelligent Person Search	Quickly locate persons of interest using an example photo based on their appearance or perform searches of people using previously saved images or from still images captured from live video within victor Client. The results of these searches can be sorted by relevance or time, and selected clips can be saved/ exported. You can even launch live video from search results reducing security response times in emergency situations.	VideoEdge Illustra Edge Assisted
Social Distancing	Leverage existing IP cameras to highlight and identify groups of individuals who fail to observe physical separation guidelines. Count the number of people in a specified area and generate an alert if individuals are too close together or appear to be violating social distancing protocols.	Illustra AI Server
Fall Alert	Generate real-time alerts to public health & safety concerns or receive notification to begin investigating a potentially fraudulent slip-fall claim.	Illustra AI Server

Illustra AI Server Specifications¹

	8 Channels of AI ²	20 Channels of AI ²
Dell Server ³	5820-XL Tower	7920XL Tower
CPU	Intel Xeon W-2255 3.7 GHz Processor with 10 Cores	1x Intel Xeon Gold 6230R 2.1 GHz Processors with 26 Cores
GPU ³	1x nVidia Quadro RTX4000 8GB	2x nVidia Quadro RTX5000 16GB
RAM	64 GB DDR4-2666MHz ECC	128 GB DDR4-2933 ECC
Storage	512 GB SATA SSD	M.2 512 GB PCIe NVMe (Non-Volatile Memory express) SSD
Network	1x onboard Gbit & 1x add-on Intel PCIe 1 Gbit Ethernet • Video traffic • Management	2x 1 onboard GB Ethernet NICs • Video traffic • Management

¹ Illustra AI Server sold as software licensing only. Please visit <https://tyco-tsp.com/ai/> for release notes, required hardware specs and user guide. for more information or contact your local sales representative.

² One analytic process is available on the 8-channel server subject to which AI model is used (min. of 4). Four analytic processes are available on the 20-channel server subject to which AI models are used. Each process can support the same or different analytics, and support four video streams.

³ Dell servers and nVidia card specifications may change due to natural hardware progression.

Ordering Information

Model Numbers	Description
ADVC-TYCREID01	victor add-on, 1 intelligent search - person: Centralized license, per camera
ADVE-TYCREID01	VideoEdge add-on, 1 intelligent search - person: VE local license, per camera
ADAI-TYCCC01	Illustra AI Server add-on, 1 Crowd Counting license, per camera
ADAI-TYCCC01SSA	Illustra AI Server add-on, 1 Crowd Counting SSA license, per camera
ADAI-TYCPPL01	Illustra AI Server add-on, 1 Occupancy license, per camera
ADAI-TYCPPLSSA	Illustra AI Server add-on, 1 Occupancy SSA license, per camera
ADAI-TYCFACE01	Illustra AI Server add-on, 1 Facial Matching license, per camera
ADAI-TYCFACSSA	Illustra AI Server add-on, 1 Facial Matching SSA license, per camera
ADAI-TYCMASK01	Illustra AI Server add-on, 1 Mask Detection license, per camera
ADAI-TYCMASSSA	Illustra AI Server add-on, 1 Mask Detection SSA license, per camera
ADAI-TYCOBJ01	Illustra AI Server add-on, 1 Object Classification license, per camera
ADAI-TYCOBJ01SSA	Illustra AI Server add-on, 1 Object Classification license, per camera
ADAI-TYCPERM01	Illustra AI Server add-on, 1 Intelligent Perimeter license, per camera
ADAI-TYCPERM01SSA	Illustra AI Server add-on, 1 Intelligent Perimeter SSA license, per camera
ADAI-TYCSOCD01	Illustra AI Server add-on, 1 Social Distancing license, per camera
ADAI-TYCSOCD01SSA	Illustra AI Server add-on, 1 Social Distancing SSA license, per camera
ADAI-TYCFAL01	Illustra AI Server add-on, 1 Fall Alert license, per camera
ADAI-TYCFAL01SSA	Illustra AI Server add-on, 1 Fall Alert SSA license, per camera

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Building on a proud history of more than 135 years of innovation, we deliver the blueprint of the future for industries such as healthcare, schools, data centers, airports, stadiums, manufacturing and beyond through OpenBlue, our comprehensive digital offering.

Today, with a global team of 100,000 experts in more than 150 countries, Johnson Controls offers the world's largest portfolio of building technology and software as well as service solutions from some of the most trusted names in the industry.

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